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(54) CONDENSATE DEMINERALIZATION DEVICE

## (57)Abstract:

PROBLEM TO BE SOLVED: To obtain a condensate demineralization device of BWR reactor power plant capable of longer non recovery treatment and leveling up processed water quality.

SOLUTION: In a condensate demineralization device of BWR reactor power plant using ion exchange resin, uniform particle size strong acid cation resin with degree of bridge formation of 12% to 16% and within the average particle size of 550 to 750  $\mu\text{m}$ , and uniform particle size strong base anion resin within average particle size of 500 to 700  $\mu\text{m}$ , are used in a mixed bed. The ion exchange resin has degree of bridge formation of 14% and the uniform particle size strong acid cation resin is desired to be average particle size of 600  $\mu\text{m}$ , and the mixed bed of the ion exchange resin to be average particle size of 650  $\mu\text{m}$  can have at the inlet a pre-filter consisting of a hollow fiber membrane filter, a pre-coat type filter or a pleat filter and the like.

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